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## **WE CLAIM:**

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- 1. A method for transforming a plant comprising the steps of:
- (a) contacting the meristematic tissue of the plant with a medium 5 comprising DNA;
  - (b) contacting an area of the plant below the megistematic tissue of step a) with a positive lead of a power source;
  - (c) contacting the medium comprising DNA with a negative lead of the power source; and
- 10 (d) applying a low amperage current from/the power source, thereby causing the DNA to migrate from the medium to the cells of the meristematic tissue of the plant.
  - 2. The method of Claim 1, wherein the plant is a dicot.
  - 3. The method of Claim 2, wherein the plant is a soybean plant.
  - 4. The method of Claim 1, wherein/the plant is a monocot.
- 20 5. The method of Claim 1, wherein the plant is a seedling.
  - 6. The method of Claim 1, wherein the DNA is a plasmid vector.
  - 7. The method of Claim 6, wherein the plasmid vector is linearized.
  - 8. The method of Claim/6, wherein the plasmid contains the gene for barley oxalic acid oxidase.
- 9. The method of Claim 1, wherein the current is about 0.01 to about 1.0 30 mA.
  - 10. The method of Claim 1, wherein the current is about 0.1 to about 0.5 mA.
- The method of Claim 1, wherein the meristematic tissue is an apical meristem.

- 12. The method of Claim 1, wherein the meristematic tissue is a lateral meristem.
- 13. The method of Claim 1, wherein the meristematic tissue is a 5 meristematic dome.
  - 14. The method of Claim 1, wherein the area of the plant below the meristematic tissue is a root.
- 10 15. The method of Claim 1, wherein the area of the plant below the meristematic tissue is a stem.
  - 16. A trapsgenic plant produced by the method of Claim 1.

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